EVALUATION OF EIGHT ASSAYS FOR THE DETECTION OF CAMPYLOBACTER SPP. IN THE INTERMOUNTAIN WEST

by

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STATEMENT OF THESIS APPROVAL

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ABSTRACT

Campylobacteriosis is a foodborne and waterborne zoonotic gastrointestinal illness and the most common cause of acute gastroenteritis worldwide. In the United States Campylobacter infections are second only to Salmonella as the most common cause of gastroenteritis, accounting for an estimated 2.4 million symptomatic infections annually. It is estimated that the total cost of foodborne illness in the United States is $152 billion of which $18.8 billion is attributed to Campylobacter. Diagnosis can be challenging because the organism is difficult to isolate, grow, and identify. Clinical manifestation of Campylobacter is indistinguishable from other enteric pathogens; (Salmonella, Shigella, Yersinia*, Clostridium difficile,* and *E. coli* 0157:H7 and other enterohemorrhagic *E. coli*) therefore, a presumptive diagnosis cannot be made putting them at risk for untreated infection. There are a growing number of diagnostic methods available for detection and/or isolation of Campylobacter species from stool, but there is currently no national or state public health testing guidelines.

Eight assays were evaluated for performance in the detection of Campylobacter species in stool. The assays are comprised of four culture

medias (CVA, CSM, Cefex, and mCCDA); three EIA/ELISA kits (ImmunoCard STAT! Campy, Premier Campy and ProSpecT Campy); and one molecular method (FilmArray GI panel).

The FilmArray GI panel due to its ability to detect viable and non-viable organism was used as the gold standard. To verify the gold standard was accurate all positive FilmArray samples were analyzed by DNA sequencing. The sensitivity and specificity, respectively, of each assay are as follows: CVA 87.8%, 100%; CSM 87.8%, 100%; Cefex 87.8%, 100%; mCCDA 78.0%, 100%; ImmunoCard STAT! Campy 31.7%, 65.2%; Premier Campy 80.5%, 26.1%; and the ProSpecT Campy 75.6%, 82.6%. In contrast the FilmArray produces a sensitivity and specificity of 100% when compared to culture. Furthermore the FilmArray GI panel takes the least amount of time to produce a result, 1 hour compared to 48-72 hours for culture.

In conclusion, the FilmArray GI panel is the most sensitive, specific, rapid, cost effective, and objective method for the detection of Campylobacter species in stool. Molecular assays such as the FilmArray GI panel should replace traditional culture techniques in the microbiology lab.

My thesis is dedicated to the two people who have inspired me above all others: my mother, Tani Alger; and my better half, Bailey A. Stewart. This manuscript is but a tribute to their dedication and unwavering belief in me.

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CHAPTER I

INTRODUCTION

Campylobacteriosis is a foodborne and waterborne zoonotic gastrointestinal illness and the most common cause of acute gastroenteritis worldwide. [1, 2, 9, 11, 12, 30] In the United States, Campylobacter infections are second only to Salmonella as the most common cause of gastroenteritis, accounting for an estimated 2.4 million symptomatic Campylobacter infections annually. [1, 8, 11, 12] It is estimated that the total cost of foodborne illness in the United States is $152 billion, $1.19 billion of which is in Utah. [29] Of the total foodborne related costs, Campylobacter has the largest cost to United States residents at $18.8 billion, $4.2 billion more than its nearest competitor (Salmonella). [10] Additionally, FoodNet- the Foodborne Diseases Active Surveillance Network of the Centers for Disease Control and Prevention- estimates that as many as 35 times more Campylobacter enteric infections my go undiagnosed or unreported each year. [11]

Enteric Campylobacter infections were the third most common cause of foodborne related hospitalizations, accounting for 15% of all cases between

2000 and 2008. [28] The 2009 incidence of infection is 13 cases per 100,000 population but is significantly higher, 29 cases per 100,000 population, in children younger than four years of age. [7]

Bacteriology

The genus was first recognized in 1906 by John McFadyean who described a comma-shaped spiral organism associated with abortions in cattle and sheep. The organism was initially named *Vibrio fetus* but reclassified to *Campylobacter fetus* in 1973. The first human disease was described in 1959 when the organism was isolated from children with acute dysentery. In 1972 the first isolate of Campylobacter was grown from a fecal specimen. This initial case was followed by other sporadic cases worldwide and in 1978 there was a large community outbreak associated with the town water system in Bennington, Vermont. [1]

Campylobacter detection is usually included in a routine stool culture. Of the 107 clinical laboratories surveyed in Pennsylvania 104 (97.2%) regularly screened for Campylobacter. [19] Campylobacter species are a curved or spiral, oxidase positive, Gram-negative rod. [11, 12] The genus grows best in microaerophilic environments, (5% O_2, 10% CO_2, and 85% N) which most notably still contain oxygen albeit in decreased concentrations as compared to "regular" atmosphere (~20% O_2). [11, 19] The genus grows best at 37°C; however, *Campylobacter jejuni/coli* grow best at 42°C (*Note: the increased

temperature also inhibits a significant amount of normal fecal flora). [1, 11, 12, 19] Of the 18 species of Campylobacter known, *Campylobacter jejuni* accounts for more than 90% of all human Campylobacter infections with the remainder caused primarily by *Campylobacter coli.* [11] *Campylobacter upsaliensis* is the most encountered "emerging" pathogen in the Campylobacter genus and is associated with gastroenteritis in children and Human Immunodeficiency virus (HIV)-infected individuals. [12]

Etiology

Campylobacters colonize the colon of farm and domestic animals including cattle, sheep, goats, pigs, dogs, cats, and particularly poultry. [1, 11] One study reported that 98% of all retail chicken was contaminated with *C. jejuni and/or C. coli.* [11] "Messy" slaughters are the primary route for inoculation of retail poultry with gastrointestinal organisms. Contaminated water or unpasteurized milk my also cause sporadic cases of disease or outbreaks. [11]

Pathogenesis

Campylobacters cause a nonspecific acute inflammatory enteritis involving the colon and small intestine. [1] Edema of the infected area as well as an infiltrate composed of neutrophils and mononuclear cells is seen histiologically. [1, 32] After ingestion, Campylobacters move via their flagellum

to the distal ileum and colon where they damage the host gut epithelial cells either directly, through invasion, or indirectly by initiating an inflammatory response. [1, 14]

The genus possesses three key virulence factors. The polar flagella allows for locomotion and important in host colonization and cell invasion. [1, 14, 32] The lipooligosaccharide facilitates immune avoidance and is associated with autoimmune disorders. [1, 32] Finally, Campylobacter possesses a capsule that facilitates invasion of mucosal epithelial cells and aids in serum resistance. [1, 32]

Clinical Presentation

Campylobacter gastroenteritis usually develops within 1 to 7 days after inoculation from contaminated food or water. [1, 3, 11, 27] Acute diarrhea is the most common symptom which may or may not be bloody. [1, 3, 27] Other common symptoms are fever, malaise, and abdominal pain. [1, 3, 27] Rarely systemic and extra-intestinal complications may occur including but not limited to septicemia, meningitis, acute septic arthritis, and urinary tract infection. [1] Table 1 lists clinical symptoms from three studies.

Most cases of Campylobacteriosis are self -limiting in immunocompetent patients, requiring only supportive treatment with adequate hydration. Clinical judgment should be used to determine when deciding whether to treat with antibiotics. Prudent use of antibiotics favors

Table 1

	Blaser et al	Pitkanen et al	Ponka et al
Location	Denver, CO	Finland	Finland
Subjects	124 patients	188 inpatients	524 outpatients
Features, %			
Diarrhea	98	99	98
Blood in Stool	52	27	-
Mucus in Stool	35	21	-
Malaise	95	92	70
Abdominal pain	88	90	87
Abdominal tenderness	-	53	-
Fever	82	88	78
Nausea	55	65	-
Vomiting	35	51	-
Headache	<30	55	51
Myalgia	<30	35	-
Arthralgia	<30	28	19

patients with visible blood in the stool, fever, large number of stools, worsening symptoms, and pregnant women and immunocompromised patients. [1] It is worthwhile to note that pediatric patients can quickly obtain the "worsening symptoms" status as profuse bloody diarrhea can have sever life threatening consequences. *Campylobacter jejuni* has historically been sensitive to macrolides, tetracyclines, fluoroquinolones, aminoglycosides, imipenem, and chloramphenicol but resistant to trimethoprim. [1] With the introduction of ciprofloxacin, the antibiotic quickly became the empiric treatment for acute community-acquired bacterial diarrhea; however, quinolone resistance quickly spread with the addition of the antibiotic to animal feed. [1, 13] Ciprofloxacin resistance has been reported to be as high as 88% of all *Campylobacter jejuni/coli* isolates. [13]

Postinfectious Complications

Occasionally, serious postinfectious sequelae ranging from reactive arthritis to Guillain-Barré syndrome (GBS) develop due to the cross reacting antibodies. [1, 10, 11, 15, 21, 23, 24] Campylobacter is now recognized as the most identifiable infection preceding Guillain-Barré syndrome. [24] *C. jejuni* has been isolated in 15% of patients with GBS. [24] When combined with serological evidence the number of GBS cases associated with Campylobacter ranges from 30% to 40%. [24] In 2004 the annual estimated cost of GBS was $1.7 billion with a mean cost per patient exceeding $300,000. [10]

The lipooligosaccharide (LOS) of Campylobacter species contains an outer core structure that is identical to terminal oligosaccharide structures that are present both in complex gangliosides, such as GM1 and GD1a, in peripheral nerve tissue. [22] It is thought that the immune response by susceptible hosts to ganglioside-like structures in the LOS cross-react with peripheral nerve targets and cause either demyelination or axonal degeneration. [22]

Laboratory Testing Methods

Optimal disease management is profoundly affected by rapid detection of Campylobacter infection. Specimen collection, handling, and storage are important factors for accurate laboratory results. Sample integrity can have profound effect on the detection and/or recovery of the organism.

Currently there is no national or state health department testing guidelines allowing individual labs to select the "best" method for Campylobacter detection. Important factors in determine the "best" methods are turnaround times, sensitivity and specificity, cost, and availability. There exists a wide variety of test methodologies including direct detection, filtration, culture, antigen detection, enzyme immunoassay (EIA)/enzyme linked immunosorbant assay (ELISA), and nucleic acid detection by polymerase chain reaction (PCR).

If there is to be a delay in testing greater than 2 hours it is recommended to place the stool in a transport medium that preserves enteric pathogens. The most widely used transport medium is Cary-Blair based on the formulation by Cary and Blair in the 1960s. Campylobacter, as a fastidious organism, has significantly better recovery when placed in transport media versus no transport media both at room temperature and refrigerated. [6, 18, 20] Ninety percent organism survival in Cary-Blair media can be detected at 2.6 days refrigerated (4°C) and 1.3 days at room-temperature (24-26°C). [31] Increased recovery, 90% at 4.2 days when refrigerated and 1.8 days at room-temperature, is observed when the agar content of Cary-Blair is decreased from 5.0 g/L to 1.6 g/L, creating modified Cary-Blair. [31] Modified Cary-Blair was used in this study.

Gram stain can be used as a rapid inexpensive method for Campylobacter detection; however, since the organism is relatively thin it cannot be easily visualized with safranin (Gram stain counterstain). [11] A 0.1% aqueous basic fuchsin can be substituted for safranin to achieve better visualization. [11] Sensitivity of the direct detection method ranges from 66% to 94%; however, the method is very objective and highly dependent on microbiologist skill level and is therefore not often used clinically. [11]

Filtration technique when used in conjunction with a selective agar produced adequate results. One particular technique described by Bolton *et al.* uses a 0.45 μm filter placed on a Columbia agar containing 5% horse

blood and 50 mg/L of cyclohexamide. Five hundred microliters of sample is then placed on the filter membrane and allowed to passively diffuse under ambient conditions onto the agar, a process that takes 30-45 minutes. [5] Filtration techniques are generally not considered time or cost effective and are not used clinically.

Antigen detection is a rapid (less than 3 hour) user-friendly qualitative assay that is performed in a cartridge (lateral flow) or microplate format and produces outstanding sensitivity and specificity. The sensitivity and specificity are reported to be as high as 98.1% and 95.9% while an independent researcher found the sensitivity to be 98.5% and specificity to be 98.2%. [11]

There are several EIAs/ELISAs on the market for Campylobacter detection. The EIA/ELISA Campylobacter assays are microplate based and detect the presence of the Campylobacter specific antigen (CSA) in stool. These assays are more complex than antigen detection by lateral flow, have longer turn-around times (2-3 hours) yet still produce comparable results. [2, 9, 11, 12, 30]

Culture, the most widely used method for Campylobacter detection, can be used as an alternative method to antigen detection. Increased growth temperatures and selective medias with added antimicrobials to suppress normal fecal flora overgrowth allow for optimal Campylobacter recovery. Some of the most commonly used Campylobacter selective medias used are

Campy-BAP (blood agar plates), CVA (cefoperazone-vancomycin-amphotericin), CSM (charcoal based selective medium), CCDA/mCCDA (charcoal-cefoperazone-deoxychlate agar/modified CCDA). [4, 17, 19]

A small subset of the population, 14 out of 104 (13.1 %) clinical laboratories surveyed in Pennsylvania, included culture broth enrichment in Campy-Thioglycollate (Campy-Thio) or gram-negative-broth (GNB) to enhance culture sensitivity. However, symptomatic patients usually excrete 10^6 to 10^9 CFU of Campylobacter per gram of stool and this method is usually not considered cost effective. [11]

The newest method for Campylobacter detection directly from stool is nucleic acid detection with PCR. Several different primers exist for genus and species differentiation. CadF is a common *C. jejuni/C. coli* primer (no differentiation between species), hipO is used for *Campylobacer jejnui*, and glyA for *Campylobacter coli.* [2, 8, 11, 16, 25, 26] Although many Campylobacter primers and probes are published, specific biotechnology companies are reluctant to publish the primers and probes used on their assay.

CHAPTER II

MATERIALS AND METHODS

Patients and Specimens

Specimen testing for this study was performed in the microbiology laboratory of Primary Children's Medical Center (PCMC), Salt Lake City, Utah. PCMC is a 252-bed pediatric medical center serving the intermountain west. Stool specimens from symptomatic patients were submitted to the microbiology laboratory in sterile containers for routine enteric pathogen identification (stool culture). Specimens were inoculated on four culture medias upon arrival. Specimens with sufficient volume after clinical testing were aliquoted into three individual sterile containers and archived at -70°C for further testing.

Intermountain Central Laboratory (ICL) served as a secondary collection site. Stool specimens submitted to Intermountain Healthcare (IHC) hospitals and clinics in Salt Lake, Utah, Weber, and Davis counties are sent via courier to the ICL. Microbiologists at ICL aliquoted specimen into modified Cary-Blair enteric transport media and forwarded the specimens to

PCMC via IHC courier. Specimens were inoculated upon receipt at PCMC and aliquoted into three individual sterile containers and archived at -70°C for further testing.

Culture

Each specimen was inoculated on four different culture medias: Campy-CVA (BD, Franklin Lakes, NJ), Campy-CSM (BD, Franklin Lakes, NJ), Campy Cefex agar (Hardy, Santa Maria, CA), and mCCDA (Oxoid, Hampshire United Kingdom) and struck for isolation. Campy-CVA, Campy-CSM, and Campy Cefex were placed in microaerophilic conditions and incubated at 42°C for 48 hours. The mCCDA plate was placed into microaerophilic conditions and incubated at 37°C for 48 hours, as per manufacture recommendations. At 48 hours the plates were removed from microaerophilic conditions and examined for growth indicative of Campylobacter, white-grey, wet, shimmery colonies. Suspicious colonies were tested on an oxidase card (BD, Franklin Lakes, NJ) and catalase (Campylobacter is oxidase and catalase positive). To confirm, a Gram-stain was performed to visualize the typical "gull-wing" curved Gram-negative rod morphology. An isolate of the organism was archived in TSB for all positive cultures at -70°C.

ImmunoCard STAT! Campy

The ImmunoCard STAT! Campy (Meridian Bioscience, Cincinnati, OH) is a lateral flow-based immunoassay for the detection of Campylobacter antigen in stool. ImmunoCard STAT! Campy assay uses monoclonal antibodies specific for an antigen (Campylobacter Specific Antigen, CSA) common to *C. jejuni* and *C. coli*. 50 µL of sample is added to sample diluent (350 µL for preserved samples and 1400 µL for unpreserved samples) and vortexed for 15 seconds. Using a transfer pipette 175 µL of the diluted specimen is added to the sample port on the ImmunoCard STAT! Campy card. Campylobacter antigen in the diluted sample binds to the monoclonal antibody-colloidal gold conjugate as the sample moves through the device. The Campylobacter-capture monoclonal antibody bound to the assay membrane at the test position of the device central window binds antigen-Campylobacter-antibody-colloidal gold complex and yields a visible pink-red line. When no antigen is present, no complex is formed and no pink-red line will appear at the test position of the device central window. The control line serves as the assay control by showing adequate flow of diluted sample through the test device, proper assay execution and/or adequate test reagents. The control line is a goat anti-mouse antibody bound at the control position of the reading window. A visible pink-red line at the control position of the device central window should be present each time a sample or control

is tested. If no pink-red control line is seen, adequate sample flow has not occurred and the test is considered invalid.

Premier Campy

Premier Campy (Meridian Bioscience, Cincinnati, OH) is an enzyme immunoassay for the direct detection of Campylobacter specific antigen (CSA) in human stool samples. Breakaway microwells are coated with Campylobacter specific monoclonal antibodies. Diluted patient specimen is added to the microwells and incubated. Upon completion of the incubation, a wash step is performed to remove unbound material and a Horseradish Peroxidase (HRP)–Anti–Campylobacter conjugate is added to the washed microwells. If Campylobacter antigens are present, an antibody-enzyme complex is formed. A second wash step is performed to remove unbound materials and a chromagen substrate is added to the microwells. A blue color develops in the presence of bound enzyme. Premier Stop Solution I is added, changing the initial blue reaction to yellow. Test results are interpreted visually or spectrophotometrically. In a negative reaction, there is no CSA or an insufficient level of CSA present to bind the enzyme conjugate to the well and no colored reaction product develops.

The assay was performed according to the manufacturer's instructions. Diluent (200 μL) was added to a test tube. Stool (50 μL) or stool preserved in Cary-Blair (200 μL) was added to the diluent. Diluted specimen was vortexed

for 15 seconds. One microwell per sample plus two additional for positive and negative controls are removed from the kit. One hundred microliters of diluted stool specimen are added to each of the sample microwells. Two free falling drops of positive control is added to the positive control microwell and 100 µL of sample diluent is added to the negative control microwell. The plate is then covered and incubated in a StatFax™ 2200 for 30 minutes at 24°C at setting 5 (1000 rpm). After incubation, contents were dumped out and each well was washed using the provided wash solution five times. Two free falling drops were added to each well and incubated in the StatFax™ at the same settings for 15 minutes. After incubation, the contents were again dumped out and each well was washed using the provided wash solution five times. Two free falling drops of substrate were added to each well and incubated for 10 minutes at room temperature. Finally, two drops of stop solution were added to each well. The microplate was read spectrophotometrically at 450 nm and assigned as positive or negative based on the optical density (OD) value.

ProSpecT Campy

The ProSpecT Campy (Remel, Lenexa, KS) is an enzyme immunoassay for the direct detection of Campylobacter specific antigen (CSA) in human stool samples. Breakaway microwells are coated with Campylobacter specific polyclonal antibody. Diluted patient specimen is added to the microwells and

incubated. Upon completion of the incubation, a wash step is performed to remove unbound material and a Horseradish Peroxidase (HRP)-Anit-Campylobacter conjugate is added to the washed microwells. The wells were incubated and then washed to remove unbound enzyme conjugate. If Campylobacter antigens are present, an antibody-enzyme complex is formed. A second wash step was performed to remove unbound materials and a chromagen substrate (3,3',5,5'-tetramethylbenzidine, TMB) was added to the microwells. A blue color develops in the presence of bound enzyme. ProSpecT stop solution is added, changing the initial blue reaction to yellow. Test results are interpreted visually or spectrophotometrically. In a negative reaction, there is no CSA or an insufficient level of CSA present to bind the enzyme conjugate to the well and no colored reaction product develops.

The assay was performed according to the manufacturer's instructions. Diluent (600 μL) was added to a test tube. Stool (300 μL) was added to the diluent. Diluted specimen was vortexed for 15 seconds. Specimens in Cary-Blair could be added directly to the microwells. Remove the number of microwells needed per run (1 per sample) plus two additional for positive and negative controls. Add 200 μL of diluted stool specimen, or specimen in Cary-Blair to each labeled sample microwell. Four free falling drops of positive control and negative control are added to their respective microwells. The plate is then covered and incubated at room temperature (20-25°C) for 60 minutes. After incubation, contents were dumped out and each well was

washed using the provided wash solution three times. Four free falling drops were added to each well and incubated at room temperature for 30 minutes. After incubation, the contents were again dumped out and each well was washed using the provided wash solution five times. Four free falling drops of substrate were added to each well and incubated for 10 minutes at room temperature. Finally, one drop of stop solution were added to each well. The microplate was read spectrophotometrically at 450 nm and assigned as positive or negative based on the optical density (OD) value.

FilmArray GI Panel

BioFire Diagnostics Inc. (BFDx) formerly Idaho Technology, Inc. has developed an innovative, closed, sample-to-result diagnostic platform, the "FilmArray" (FA) that can take an unprocessed clinical sample through nucleic acid purification, reverse transcription, and nested multiplex PCR amplification in a fully automated fashion in less than 60 minutes. Up to 30 gene targets can be analyzed at one time, providing the means to test for diverse panels of pathogens in a rapid and cost effective manner. The FilmArray instrument has a small footprint and can be operated by users with minimal skill. It is therefore amenable to use in a variety of clinical settings, including at the point of care.

The initial development of the FilmArray system has been funded by NIH/NIAID grants (U01 AI061611 "Differentiation of Common Respiratory

Viruses and SARS" PI Poritz and U01 AI074419 "HT-Film-Array: a system to assess respiratory viruses with emphasis on influenza" PI Dobrowolski. With these funds ITI developed a FilmArray Respiratory Pathogen (RP) pouch to detect a set of 20 respiratory pathogens including the viruses: Adenovirus, Bocavirus, Coronavirus (229E, OC43, NL63, HKU1), Influenza A (H1 and H3 subtyping), Influenza B, Parainfluenza virus (1, 2, 3, and 4), human Metapneumovirus, Rhinovirus, Respiratory Syncytial Virus, and the bacteria: *Bordatella pertussis*, *Mycoplasma pneumonia* and *Chlamydophila pneumonia*. BFDx started analytical testing of the FA RP panel in October 2008 with clinical evaluations running from November 2009 to April 2010. BFDx make a 510(k) submission to the FDA for the FilmArray instrument and RP pouch following a successful clinical trial. Data from these evaluations illustrate the description of the system given below. In addition development of the GI pouch proposed here will be modeled on our successful RP pouch development efforts.

The FilmArray pouch is a uniquely designed disposable plastic container that performs all steps needed for sample analysis from extraction to PCR amplification. An upper fitment (Fig.1 middle: A) contains reservoirs for freeze-dried reagents and plungers (B) that move reagents into the pouch. A human sample is pre-mixed with a lysis buffer, injected into the fitment (A) and processed automatically through the blisters, where cell lysis (C), nucleic acid purification (D & E), reverse transcription, and (1st stage) multiplex RT-

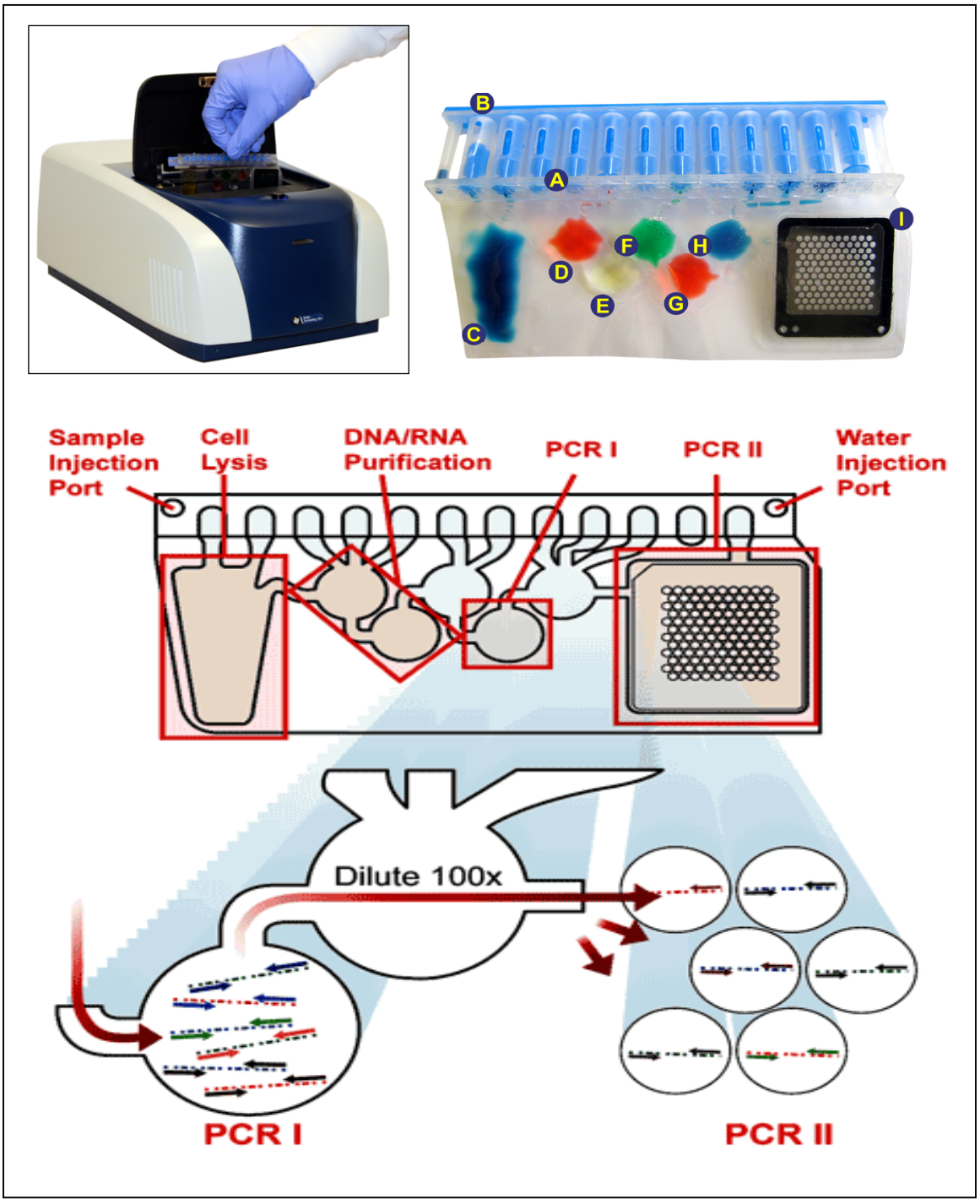

Figure 1. FilmArray system: instrument (top left), pouch (top right), and pouch schematic (bottom).

PCR (F & G, termed here "PCR1") and a second stage PCR (I, termed here PCR2) are performed in sequential steps.

The FilmArray pouch employs a nested multiplex PCR (nmPCR) strategy wherein a mixture of multiple "outer primers" is used to perform multiplex amplification in the 1st stage RT-PCR for a limited number of cycles (generally 20 to 26). This reaction is conducted in a large volume (130µl) in two blisters (F & G), producing multiple amplicons (e.g. 60 primers are involved in the RT-PCR amplification of the RP pouch). After a 100 fold dilution of the 1st stage outer PCR product (in blister H) this material is injected into the 102 well array, where the 2nd stage inner real-time PCR occurs (I). Wells of the array are preloaded with dried primer pairs. (30 pairs of primers in RP pouch are dried into the wells of the array in triplicate reactions). Each well of the array (1 µl) has a single pair of primers that are nested within the corresponding PCR1-generated amplicon. The PCR2 reaction is carried out for 30 cycles in the presence of LCGreenPlus®, a fluorescent DNA binding dye proprietary to BFDx which has properties similar to SYBR Green®. The nested multiplex procedure as implemented in the pouch has the ability to detect 1-10 copies of synthetic DNA and RNA.

The results of the 2nd stage PCR, a combination of fluorescence data from real-time PCR data and a high-resolution melt, are analyzed by the software to identify pathogens in the sample. The organism data, as well as

data from internal process control reactions (a mRNA target from the yeast *S. pombe*, freeze dried into the pouch), are analyzed automatically at the completion of the run, with the final calls reported to the user in a simple, unambiguous report. In addition, all run data and results are saved to a central relational database for later retrieval and further analysis. Automated analysis of the 2nd stage PCR data consists of the following four steps:

1. For each well independently, the software determines if the PCR reaction and melting curve are positive by performing Signal to Noise and curve shape comparisons. Positive samples are assigned Cp and Tm values.
2. For each assay, the PCR and melt curves of the three replicate wells containing that assay are compared to determine if the data are similar. The software compares the difference in Cp and Tm values to a predefined cutoff threshold. If a specified number of wells meet these conditions, then the assay is assigned a positive call. Assay limits are based on empirical data and incorporate instrument and manufacturing variability.
3. Assay calls are combined to make the process control and organism calls. The process control passes if all assays associated with the control are positive. For the organism calls, the system architecture

supports multiple assays assigned to an organism, as well as gene specific assays for organism subtyping.

4. Results from the process control and organism data are combined to report the final results. If the process control fails, then the user is instructed to re-run the sample and the organism results are not reported to the user. Otherwise the organism and any sub-typing results are reported to the user.

In addition to the standard report for the basic user, the advanced user has the option to view all the PCR and melt data associated with a run as well as instrument diagnostic information for trouble shooting. In addition complex queries can be made to the database, which allows comparisons across runs including, for example, the automatic generation of Levey-Jennings control charts.

A key difference between the FilmArray chemistry and other multiplex PCR systems is that the first stage PCR is not the direct source of the signal readout. Rather, it serves as a booster for the array of PCR2 reactions. Nested PCR enables a less than ideal amplification in the deeply multiplexed PCR1 reaction to be compensated by "purifying" effect of second stage nested PCR2. Strict identification is performed by matching expected Tm of amplicon with the designated location. By performing the PCR2 in an "addressable" array the FilmArray system can differentiate amplicons of the same size and Tm in the same sample.

The net effect of the PCR1 is to enrich the sequences of interest, while lowering the overall sequence complexity of the reaction. This enables the FilmArray system to achieve high sensitivity even in the presence of inhibitors. The enrichment step also allows for PCR1 to be less stringent and have wide choice for primers and targets making the system more flexible and capable of detecting targets with various G+C contents.

Another advantage of the nmPCR chemistry is its flexibility. By using the same set of outer primers in the PCR1 reaction, new variants of a gene can be detected by adding or altering primer pairs in the PCR2 array. If the outer primers are placed in the highly conservative regions, e.g. on conserved domains of housekeeping genes, new species can be detected by implementation of species–specific primers into PCR2 array.

Nested PCR also has advantages for detecting highly divergent and rapidly evolving viruses such as Influenza A. Degenerate primers covering the range of known genomic variants are used to generate the outer and inner amplicons. Multiplex PCR allows us to target several genes per organism to eliminate the possibility of false-negatives because simultaneous mutations causing mismatches with primers for three genes are unlikely. These strategies allow for subtyping and detection of single strains of highly divergent viruses.

The FilmArray was used to detect Campylobacter species in stool samples as part of this study. Initially the FilmArray only detected

Campylobacter jejuni, the most prominent pathogen in the genus. After preliminary results a new Campylobacter assay was developed to detect multiple Campylobacter species from stool and was then incorporated it into the FilmArray GI panel.

Chart Review

A chart review was performed to correlate clinical presentation of Campylobacter positive patients to Campylobacter negative patients. An IRB (IRB_00053148) was submitted to PCMC and the University of Utah to perform a chart review. Forty-four Campylobacter culture negative FilmArray negative patients (from a different study) were identified and compared to 31 Campylobacter culture positive FilmArray positive patients. A "broad" chart review was performed to look at chart availability, diarrhea status, other GI tests ordered, temperature, and WBCs to determine feasibility of further investigation.

CHAPTER III

RESULTS

Two thousand and sixty four specimens were collected over a 12-month period in three distinct groups (1- samples from PCMC; 2- samples from ICL, frozen aliquots tested on EIA/ELISA; 3- samples from ICL, fresh stool aliquots tested on EIA/ELISA). All 2064 specimens were tested by the four culture methods (CVA, CSM, Cefex, mCCDA). A smaller subset (n=850) of the 2064 cultures specimens were tested on the EIA/ELISA (ImmunoCard STAT! Campy, Premier Campy, ProSpecT Campy) methodologies based on four criteria in order of importance: 1- culture positive; 2- samples from PCMC; 3- fresh stool samples from ICL; 4- frozen stool samples on patients <26 years of age. An even smaller subset (n=64) were tested on the FilmArray GI panel based on the criteria that at least one assay was positive by any of the previous seven methods (culture, or EIA/ELISA). The FilmArray GI panel results were verified with sequencing. Tables 2 through 105 list the results of 2064 specimens tested by each of the assays evaluated

Table 2
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
3	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
4	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
5	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
6	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
7	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
8	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
9	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
10	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
11	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
12	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
13	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
14	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
15	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
16	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
17	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
18	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
19	NEG	NEG	NEG	NEG	POS	NEG	NEG	NEG	FP
20	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 3
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
21	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
22	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
23	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
24	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
25	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
26	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
27	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
28	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
29	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
30	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
31	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
32	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
33	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
34	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
35	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
36	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
37	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
38	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
39	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
40	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 4
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
41	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
42	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
43	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
44	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
45	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
46	NEG	NEG	NEG	NEG	NEG	NEG	POS	NEG	FP
47	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
48	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
49	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
50	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
51	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
52	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
53	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
54	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
55	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
56	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
57	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
58	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
59	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
60	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 5
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
61	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
62	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
63	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
64	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
65	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
66	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
67	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
68	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
69	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
70	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
71	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
72	NEG	NEG	NEG	NEG	NEG	NEG	POS	NEG	FP
73	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
74	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
75	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
76	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
77	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
78	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
79	NEG	NEG	NEG	NEG	POS	NEG	POS	NEG	FP
80	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 6
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
81	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
82	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
83	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
84	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
85	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
86	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
87	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
88	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
89	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
90	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
91	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
92	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
93	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
94	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
95	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
96	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
97	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
98	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
99	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
100	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 7
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
101	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
102	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
103	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
104	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
105	NEG	NEG	NEG	NEG	NEG	INDT	NEG	NT	TN
106	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
107	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
108	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
109	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
110	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
111	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
112	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
113	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
114	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
115	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
116	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
117	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
118	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
119	NEG	NEG	NEG	NEG	NEG	POS	NEG	NEG	FP
120	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 8
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
121	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
122	NEG	NEG	NEG	NEG	POS	NEG	POS	NEG	FP
123	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
124	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
125	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
126	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
127	NEG	NEG	NEG	NEG	POS	NEG	POS	NEG	FP
128	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
129	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
130	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
131	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
132	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
133	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
134	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
135	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
136	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
137	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
138	NEG	NEG	NEG	NEG	POS	NEG	NEG	NEG	FP
139	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
140	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 9

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
141	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
142	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
143	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
144	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
145	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
146	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
147	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
148	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
149	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
150	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
151	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
152	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
153	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
154	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
155	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
156	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
157	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
158	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
159	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
160	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 10
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
161	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
162	NEG	NEG	NEG	NEG	NEG	NEG	POS	NEG	FP
163	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
164	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
165	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
166	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
167	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
168	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
169	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
170	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
171	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
172	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
173	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
174	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
175	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
176	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
177	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
178	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
179	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
180	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 11
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
181	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
182	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
183	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
184	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
185	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
186	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
187	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
188	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
189	NEG	NEG	NEG	NEG	POS	NEG	POS	NEG	FP
190	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
191	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
192	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
193	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
194	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
195	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
196	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
197	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
198	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
199	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
200	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 12

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
201	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
202	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
203	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
204	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
205	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
206	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
207	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
208	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
209	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
210	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
211	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
212	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
213	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
214	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
215	POS	POS	POS	POS	NT	NT	NT	NT	[2]
216	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
217	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
218	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
219	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
220	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative [2] Quantity not sufficient, final assignment could not be determined.

Table 13
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
221	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
222	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
223	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
224	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
225	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
226	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
227	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
228	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
229	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
230	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
231	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
232	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
233	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
234	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
235	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
236	NEG	NEG	NEG	NEG	NEG	NEG	POS	NEG	FP
237	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
238	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
239	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
240	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 14

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
241	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
242	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
243	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
244	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
245	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
246	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
247	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
248	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
249	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
250	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
251	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
252	NEG	NEG	NEG	NEG	POS	NEG	NEG	NEG	FP
253	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
254	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
255	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
256	NEG	NEG	NEG	NEG	NEG	NEG	POS	NEG	FP
257	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
258	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
259	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
260	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 15

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
261	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
262	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
263	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
264	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
265	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
266	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
267	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
268	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
269	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
270	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
271	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
272	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
273	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
274	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
275	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
276	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
277	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
278	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
279	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
280	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 16

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
281	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
282	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
283	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
284	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
285	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
286	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
287	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
288	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
289	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
290	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
291	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
292	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
293	NEG	NEG	NEG	NEG	POS	NEG	POS	NEG	FP
294	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
295	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
296	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
297	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
298	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
299	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
300	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 17

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
301	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
302	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
303	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
304	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
305	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
306	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
307	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
308	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
309	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
310	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
311	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
312	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
313	NEG	NEG	NEG	NEG	NEG	NEG	POS	NT	[2]
314	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
315	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
316	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
317	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
318	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
319	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
320	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative [2] Quantity not sufficient, final assignment could not be determined.

Table 18

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
321	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
322	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
323	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
324	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
325	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
326	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
327	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
328	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
329	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
330	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
331	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
332	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
333	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
334	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
335	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
336	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
337	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
338	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
339	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
340	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 19

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
341	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
342	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
343	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
344	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
345	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
346	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
347	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
348	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
349	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
350	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
351	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
352	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
353	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
354	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
355	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
356	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
357	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
358	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
359	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
360	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 20

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
361	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
362	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
363	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
364	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
365	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
366	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
367	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
368	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
369	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
370	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
371	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
372	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
373	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
374	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
375	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
376	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
377	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
378	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
379	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
380	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 21
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
381	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
382	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
383	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
384	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
385	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
386	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
387	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
388	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
389	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
390	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
391	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
392	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
393	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
394	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
395	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
396	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
397	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
398	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
399	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
400	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 22

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
401	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
402	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
403	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
404	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
405	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
406	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
407	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
408	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
409	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
410	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
411	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
412	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
413	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
414	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
415	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
416	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
417	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
418	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
419	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
420	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 23

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
421	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
422	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
423	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
424	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
425	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
426	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
427	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
428	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
429	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
430	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
431	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
432	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
433	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
434	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
435	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
436	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
437	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
438	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
439	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
440	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 24

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
441	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
442	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
443	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
444	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
445	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
446	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
447	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
448	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
449	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
450	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
451	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
452	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
453	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
454	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
455	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
456	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
457	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
458	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
459	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
460	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 25

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
461	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
462	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
463	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
464	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
465	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
466	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
467	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
468	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
469	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
470	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
471	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
472	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
473	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
474	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
475	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
476	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
477	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
478	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
479	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
480	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 26

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
481	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
482	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
483	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
484	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
485	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
486	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
487	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
488	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
489	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
490	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
491	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
492	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
493	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
494	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
495	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
496	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
497	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
498	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
499	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
500	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 27

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
501	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
502	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
503	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
504	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
505	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
506	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
507	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
508	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
509	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
510	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
511	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
512	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
513	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
514	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
515	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
516	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
517	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
518	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
519	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
520	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 28

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
521	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
522	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
523	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
524	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
525	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
526	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
527	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
528	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
529	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
530	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
531	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
532	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
533	NEG	NEG	NEG	NEG	NEG	POS	POS	NEG	FP
534	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
535	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
536	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
537	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
538	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
539	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
540	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 29

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
541	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
542	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
543	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
544	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
545	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
546	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
547	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
548	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
549	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
550	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
551	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
552	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
553	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
554	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
555	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
556	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
557	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
558	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
559	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
560	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 30
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
561	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
562	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
563	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
564	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
565	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
566	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
567	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
568	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
569	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
570	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
571	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
572	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
573	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
574	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
575	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
576	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
577	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
578	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
579	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
580	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 31

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
581	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
582	POS	POS	POS	POS	POS	POS	POS	POS	TP
583	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
584	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
585	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
586	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
587	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
588	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
589	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
590	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
591	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
592	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
593	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
594	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
595	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
596	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
597	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
598	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
599	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
600	NEG	NEG	NEG	NEG	NEG	INDT/NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 32

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
601	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
602	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
603	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
604	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
605	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
606	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
607	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
608	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
609	POS	POS	POS	NEG	NEG	POS	NEG	POS	TP
610	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
611	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
612	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
613	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
614	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
615	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
616	POS	POS	POS	POS	NEG	POS	POS	POS	TP
617	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
618	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
619	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
620	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 33

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
621	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
622	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
623	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
624	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
625	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
626	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
627	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
628	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
629	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
630	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
631	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
632	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
633	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
634	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
635	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
636	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
637	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
638	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
639	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
640	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 34

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
641	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
642	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
643	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
644	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
645	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
646	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
647	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
648	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
649	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
650	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
651	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
652	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
653	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
654	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
655	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
656	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
657	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
658	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
659	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
660	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 35

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
661	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
662	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
663	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
664	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
665	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
666	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
667	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
668	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
669	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
670	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
671	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
672	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
673	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
674	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
675	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
676	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
677	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
678	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
679	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
680	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 36

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
681	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
682	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
683	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
684	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
685	POS	POS	POS	POS	NEG	POS	POS	POS	TP
686	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
687	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
688	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
689	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
690	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
691	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
692	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
693	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
694	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
695	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
696	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
697	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
698	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
699	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
700	NEG	NEG	NEG	NEG	NEG	POS	NEG	NEG	FP

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 37

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
701	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
702	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
703	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
704	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
705	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
706	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
707	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
708	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
709	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
710	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
711	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
712	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
713	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
714	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
715	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
716	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
717	POS	POS	POS	POS	POS	POS	POS	POS	TP
718	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
719	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
720	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 38

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
721	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
722	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
723	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
724	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
725	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
726	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
727	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
728	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
729	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
730	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
731	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
732	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
733	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
734	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
735	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
736	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
737	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
738	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
739	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
740	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 39

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
741	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
742	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
743	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
744	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
745	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
746	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
747	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
748	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
749	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
750	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
751	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
752	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
753	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
754	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
755	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
756	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
757	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
758	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
759	POS	POS	POS	POS	POS	POS	POS	POS	TP
760	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 40

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
761	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
762	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
763	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
764	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
765	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
766	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
767	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
768	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
769	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
770	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
771	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
772	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
773	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
774	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
775	NEG	NEG	NEG	NEG	NEG	INDT/INDT	POS	POS	TP
776	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
777	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
778	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
779	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
780	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 41

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
781	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
782	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
783	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
784	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
785	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
786	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
787	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
788	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
789	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
790	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
791	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
792	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
793	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
794	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
795	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
796	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
797	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
798	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
799	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
800	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 42

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
801	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
802	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
803	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
804	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
805	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
806	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
807	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
808	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
809	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
810	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
811	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
812	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
813	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
814	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
815	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
816	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
817	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
818	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
819	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
820	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 43

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
821	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
822	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
823	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
824	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
825	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
826	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
827	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
828	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
829	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
830	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
831	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
832	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
833	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
834	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
835	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
836	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
837	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
838	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
839	POS	POS	POS	NEG	POS	POS	POS	POS	TP
840	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 44

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
841	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
842	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
843	NEG	NEG	NEG	NEG	NEG	POS	POS	NT	[2]
844	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
845	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
846	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
847	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
848	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
849	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
850	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
851	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
852	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
853	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
854	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
855	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
856	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
857	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
858	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
859	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
860	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 45

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
861	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
862	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
863	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
864	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
865	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
866	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
867	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
868	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
869	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
870	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
871	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
872	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
873	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
874	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
875	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
876	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
877	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
878	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
879	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
880	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 46
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
881	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
882	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
883	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
884	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
885	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
886	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
887	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
888	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
889	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
890	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
891	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
892	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
893	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
894	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
895	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
896	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
897	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
898	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
899	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
900	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 47

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
901	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
902	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
903	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
904	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
905	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
906	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
907	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
908	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
909	NEG	NEG	NEG	NEG	NEG	INDT/NEG	NEG	NT	TN
910	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
911	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
912	POS	POS	POS	POS	POS	POS	POS	POS	TP
913	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
914	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
915	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
916	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
917	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
918	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
919	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
920	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 48

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
921	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
922	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
923	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
924	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
925	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
926	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
927	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
928	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
929	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
930	NEG	NEG	NEG	NEG	NEG	POS	NEG	NT	[2]
931	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
932	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
933	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
934	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
935	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
936	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
937	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
938	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
939	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
940	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 49
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
941	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
942	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
943	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
944	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
945	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
946	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
947	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
948	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
949	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
950	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
951	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
952	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
953	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
954	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
955	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
956	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
957	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
958	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
959	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
960	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 50

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
961	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
962	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
963	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
964	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
965	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
966	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
967	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
968	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
969	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
970	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
971	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
972	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
973	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
974	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
975	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
976	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
977	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
978	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
979	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
980	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 51

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
981	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
982	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
983	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
984	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
985	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
986	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
987	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
988	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
989	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
990	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
991	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
992	POS	POS	POS	POS	NEG	POS	POS	POS	TP
993	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
994	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
995	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
996	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
997	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
998	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
999	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1000	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 52

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1001	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1002	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1003	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1004	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1005	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1006	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1007	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1008	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1009	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1010	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1011	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1012	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1013	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1014	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1015	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1016	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1017	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1018	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1019	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1020	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 53

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1021	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1022	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1023	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1024	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1025	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1026	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1027	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1028	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1029	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1030	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1031	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1032	POS	POS	POS	POS	NEG	NEG	NEG	POS	TP
1033	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1034	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1035	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1036	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1037	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1038	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1039	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1040	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 54

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1041	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1042	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1043	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1044	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1045	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1046	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1047	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1048	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1049	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1050	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1051	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1052	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1053	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1054	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1055	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1056	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1057	POS	POS	POS	POS	NEG	POS	POS	POS	TP
1058	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1059	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1060	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 55
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1061	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1062	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1063	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1064	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1065	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1066	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1067	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1068	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1069	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1070	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1071	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1072	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1073	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1074	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1075	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1076	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1077	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1078	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1079	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1080	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 56

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1081	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1082	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1083	POS	POS	POS	POS	NEG	NEG	NEG	POS	TP
1084	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1085	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1086	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1087	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1088	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1089	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1090	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1091	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1092	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1093	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1094	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1095	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1096	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1097	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1098	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1099	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1100	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 57

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1101	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1102	NEG	NEG	NEG	NEG	NEG	POS	NEG	NEG	FP
1103	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1104	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1105	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1106	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1107	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1108	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1109	POS	POS	POS	POS	NEG	NEG	NEG	POS	TP
1110	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1111	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1112	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1113	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1114	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1115	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1116	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1117	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1118	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1119	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1120	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 58

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1121	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1122	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1123	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1124	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1125	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1126	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1127	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1128	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1129	POS	POS	POS	POS	NEG	POS	POS	POS	TP
1130	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1131	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1132	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1133	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1134	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1135	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1136	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1137	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1138	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1139	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1140	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 59
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1141	POS	POS	POS	POS	NEG	POS	POS	POS	TP
1142	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1143	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1144	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1145	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1146	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1147	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1148	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1149	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1150	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1151	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1152	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1153	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1154	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1155	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1156	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1157	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1158	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1159	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1160	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 60
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1161	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1162	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1163	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1164	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1165	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1166	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1167	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1168	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1169	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1170	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1171	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1172	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1173	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1174	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1175	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1176	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1177	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1178	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1179	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1180	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 61
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1181	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1182	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1183	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1184	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1185	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1186	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1187	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1188	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1189	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1190	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1191	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1192	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1193	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1194	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1195	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1196	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1197	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1198	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1199	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1200	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 62

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1201	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1202	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1203	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1204	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1205	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1206	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1207	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1208	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1209	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1210	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1211	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1212	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1213	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1214	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1215	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1216	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1217	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1218	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1219	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1220	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 63
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1221	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1222	NEG	NEG	NEG	NEG	NEG	NEG	POS	NEG	FP
1223	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1224	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1225	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1226	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1227	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1228	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1229	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1230	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1231	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1232	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1233	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1234	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1235	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1236	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1237	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1238	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1239	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1240	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 64

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1241	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1242	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1243	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1244	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1245	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1246	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1247	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1248	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1249	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1250	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1251	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1252	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1253	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1254	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1255	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1256	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1257	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1258	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1259	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1260	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 65

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1261	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1262	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1263	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1264	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1265	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1266	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1267	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1268	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1269	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1270	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1271	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1272	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1273	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1274	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1275	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1276	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1277	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1278	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1279	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1280	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 66

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1281	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1282	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1283	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1284	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1285	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1286	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1287	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1288	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1289	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1290	POS	POS	POS	POS	NEG	INDT/INDT	POS	POS	TP
1291	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1292	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1293	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1294	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1295	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1296	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1297	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1298	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1299	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1300	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 67

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1301	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1302	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1303	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1304	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1305	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1306	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1307	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1308	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1309	POS	POS	POS	POS	NEG	POS	POS	POS	TP
1310	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1311	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1312	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1313	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1314	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1315	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1316	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1317	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1318	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1319	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1320	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 68

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1321	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1322	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1323	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1324	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1325	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1326	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1327	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1328	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1329	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1330	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1331	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1332	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1333	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1334	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1335	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1336	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1337	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1338	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1339	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1340	NEG	NEG	NEG	NEG	NEG	NEG	POS	NEG	FP

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 69

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1341	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1342	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1343	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1344	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1345	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1346	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1347	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1348	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1349	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1350	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1351	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1352	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1353	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1354	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1355	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1356	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1357	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1358	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1359	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1360	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 70
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1361	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1362	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1363	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1364	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1365	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1366	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1367	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1368	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1369	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1370	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1371	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1372	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1373	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1374	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1375	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1376	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1377	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1378	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1379	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1380	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 71
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1381	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1382	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1383	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1384	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1385	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1386	NEG	NEG	NEG	NEG	NEG	NEG	POS	NEG	FP
1387	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1388	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1389	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1390	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1391	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1392	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1393	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1394	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1395	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1396	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1397	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1398	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1399	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1400	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 72

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1401	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1402	NEG	NEG	NEG	NEG	NEG	POS	POS	POS	TP
1403	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1404	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1405	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1406	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1407	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1408	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1409	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1410	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1411	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1412	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1413	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1414	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1415	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1416	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1417	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1418	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1419	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1420	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 73
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1421	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1422	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1423	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1424	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1425	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1426	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1427	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1428	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1429	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1430	NEG	NEG	NEG	NEG	NEG	INDT/NEG	NEG	NT	TN
1431	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1432	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1433	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1434	POS	POS	POS	POS	NEG	NEG	NEG	POS	TP
1435	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1436	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1437	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1438	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1439	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1440	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 74
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1441	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1442	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1443	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1444	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1445	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1446	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1447	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1448	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1449	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1450	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1451	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1452	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1453	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1454	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1455	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1456	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1457	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1458	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1459	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1460	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 75

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1461	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1462	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1463	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1464	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1465	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1466	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1467	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1468	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1469	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1470	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1471	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1472	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1473	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1474	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1475	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1476	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1477	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1478	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1479	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1480	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 76

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1481	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1482	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1483	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1484	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1485	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1486	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1487	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1488	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1489	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1490	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1491	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1492	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1493	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1494	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1495	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1496	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1497	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1498	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1499	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1500	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 77

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1501	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1502	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1503	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1504	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1505	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1506	POS	POS	POS	POS	NEG	POS	POS	POS	TP
1507	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1508	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1509	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1510	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1511	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1512	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1513	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1514	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1515	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1516	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1517	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1518	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1519	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1520	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 78

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1521	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1522	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1523	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1524	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1525	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1526	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1527	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1528	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1529	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1530	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1531	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1532	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1533	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1534	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1535	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1536	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1537	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1538	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1539	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1540	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 79

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1541	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1542	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1543	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1544	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1545	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1546	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1547	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1548	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1549	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1550	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1551	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1552	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1553	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1554	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1555	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1556	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1557	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1558	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1559	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1560	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 80

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1561	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1562	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1563	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1564	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1565	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1566	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1567	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1568	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1569	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1570	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1571	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1572	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1573	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1574	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1575	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1576	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1577	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1578	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1579	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1580	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 81
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1581	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1582	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1583	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1584	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1585	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1586	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1587	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1588	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1589	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1590	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1591	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1592	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1593	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1594	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1595	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1596	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1597	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1598	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1599	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1600	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 82

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1601	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1602	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1603	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1604	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1605	NEG	NEG	NEG	NEG	NEG	NEG	POS	NEG	FP
1606	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1607	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1608	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1609	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1610	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1611	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1612	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1613	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1614	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1615	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1616	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1617	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1618	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1619	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1620	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 83
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1621	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1622	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1623	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1624	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1625	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1626	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1627	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1628	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1629	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1630	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1631	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1632	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1633	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1634	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1635	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1636	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1637	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1638	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1639	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1640	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 84
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1641	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1642	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1643	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1644	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1645	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1646	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1647	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1648	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1649	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1650	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1651	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1652	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1653	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1654	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1655	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1656	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1657	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1658	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1659	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1660	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 85

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1661	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1662	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1663	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1664	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1665	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1666	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1667	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1668	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1669	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1670	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1671	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1672	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1673	POS	POS	POS	POS	NEG	POS	POS	POS	TP
1674	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1675	POS	POS	POS	POS	POS	POS	POS	POS	TP
1676	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1677	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1678	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1679	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1680	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 86

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1681	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1682	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1683	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1684	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1685	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1686	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1687	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1688	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1689	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1690	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1691	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1692	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1693	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1694	POS	POS	POS	POS	NEG	POS	POS	POS	TP
1695	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1696	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1697	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1698	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1699	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1700	NEG	NEG	NEG	NEG	NEG	NEG	POS	NEG	FP

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 87

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1701	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1702	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1703	POS	POS	POS	POS	POS	POS	POS	POS	TP
1704	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1705	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1706	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1707	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1708	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1709	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1710	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1711	POS	POS	POS	POS	POS	POS	POS	POS	TP
1712	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1713	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1714	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1715	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1716	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1717	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1718	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1719	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1720	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 88

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1721	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1722	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1723	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1724	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1725	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1726	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1727	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1728	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1729	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1730	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1731	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1732	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1733	NEG	NEG	NEG	NEG	NEG	NEG	POS	NEG	FP
1734	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1735	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1736	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1737	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1738	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1739	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1740	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 89

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1741	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1742	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1743	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1744	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1745	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1746	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1747	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1748	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1749	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1750	POS	POS	POS	POS	NEG	POS	POS	POS	TP
1751	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1752	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1753	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1754	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1755	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1756	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1757	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1758	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1759	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1760	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 90
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1761	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1762	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1763	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1764	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1765	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1766	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1767	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1768	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1769	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1770	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1771	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1772	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1773	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1774	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1775	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1776	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1777	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1778	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1779	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1780	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 91

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1781	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1782	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1783	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1784	POS	POS	POS	POS	NEG	NEG	NEG	POS	TP
1785	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1786	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1787	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1788	POS	POS	POS	NEG	NEG	NEG	NEG	POS	TP
1789	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1790	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1791	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1792	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1793	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1794	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1795	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1796	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1797	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1798	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1799	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1800	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 92

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1801	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1802	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1803	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1804	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1805	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1806	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1807	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1808	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1809	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1810	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1811	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1812	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1813	NEG	NEG	NEG	NEG	NT	NT	NT	NT	TN
1814	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1815	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1816	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1817	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1818	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1819	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1820	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 93

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1821	POS	POS	POS	POS	NEG	POS	POS	POS	TP
1822	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1823	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1824	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1825	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1826	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1827	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1828	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1829	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1830	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1831	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1832	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1833	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1834	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1835	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1836	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1837	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1838	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1839	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1840	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 94

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1841	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1842	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1843	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1844	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1845	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1846	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1847	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1848	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1849	POS	POS	POS	POS	NEG	POS	POS	POS	TP
1850	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1851	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1852	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1853	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1854	POS	POS	POS	POS	POS	POS	POS	POS	TP
1855	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1856	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1857	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1858	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1859	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1860	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 95

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1861	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1862	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1863	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1864	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1865	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1866	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1867	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1868	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1869	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1870	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1871	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1872	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1873	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1874	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1875	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1876	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1877	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1878	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1879	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1880	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 96

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1881	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1882	POS	POS	POS	POS	NEG	POS	POS	POS	TP
1883	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1884	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1885	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1886	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1887	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1888	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1889	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1890	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1891	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1892	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1893	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1894	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1895	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1896	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1897	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1898	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1899	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1900	NEG	NEG	NEG	NEG	NEG	INDT/NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 97

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1901	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1902	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1903	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1904	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1905	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1906	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1907	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1908	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1909	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1910	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1911	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1912	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1913	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1914	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1915	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1916	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1917	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1918	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1919	NEG	NEG	NEG	NEG	NEG	NEG	POS	POS	TP
1920	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 98
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1921	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1922	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1923	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1924	POS	POS	POS	POS	NEG	POS	POS	POS	TP
1925	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1926	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1927	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1928	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1929	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1930	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1931	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1932	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1933	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1934	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1935	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1936	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1937	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1938	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1939	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1940	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 99

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1941	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1942	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1943	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1944	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1945	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1946	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1947	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1948	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1949	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1950	POS	POS	POS	NEG	NEG	NEG	NEG	POS	TP
1951	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1952	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1953	NEG	NEG	NEG	NEG	NEG	INDT/INDT	NEG	NT	TN
1954	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1955	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1956	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1957	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1958	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1959	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1960	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 100

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1961	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1962	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1963	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1964	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1965	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1966	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1967	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1968	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1969	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1970	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1971	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1972	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1973	POS	POS	POS	POS	NEG	POS	POS	POS	TP
1974	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1975	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1976	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1977	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1978	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1979	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1980	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 101

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
1981	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1982	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1983	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1984	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1985	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1986	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1987	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1988	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1989	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1990	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1991	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1992	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1993	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1994	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1995	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1996	POS	POS	POS	POS	POS	POS	POS	POS	TP
1997	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1998	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
1999	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2000	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 102

Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
2001	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2002	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2003	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2004	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2005	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2006	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2007	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2008	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2009	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2010	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2011	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2012	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2013	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2014	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2015	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2016	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2017	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2018	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2019	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2020	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 103
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
2021	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2022	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2023	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2024	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2025	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2026	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2027	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2028	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2029	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2030	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2031	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2032	NEG	NEG	NEG	NEG	POS	POS	POS	POS	TP
2033	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2034	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2035	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2036	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2037	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2038	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2039	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2040	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 104
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
2041	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2042	POS	POS	POS	POS	POS	POS	POS	POS	TP
2043	NEG	NEG	NEG	NEG	POS	POS	POS	POS	TP
2044	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2045	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2046	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2047	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2048	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2049	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2050	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2051	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2052	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2053	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2054	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2055	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2056	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2057	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2058	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2059	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2060	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

Table 105
Results of eight assays for the detection of *Campylobacter* spp. in stool samples[1]

Specimen #	CVA	CSM	Cefex	mCCDA	ImmunoCard STAT! Campy	ProSpecT Campy	Premier Campy	FilmArray	Final Assignment
2061	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2062	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2063	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN
2064	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NT	TN

[1] POS, positive; NEG, negative: INDT, indeterminant; NT, not tested; TP true positive; TN, true negative; FP, false positive; FN, false negative

in the study. True positive, false positive, and false negative assignments are based on both the FilmArray GI panel result and sequencing data, and culture. True negative results are based on negative values on all culture and EIA/ELISA assays.

The FilmArray GI panel was used as the gold standard because of its ability to detect both viable and nonviable organism additionally all positive FilmArray results were verified with DNA sequencing. Culture, the FDA gold standard, was not used because of its inability to detect nonviable Campylobacters (EIA/ELISA can detect nonviable organisms) that could be present due to inadequate specimen collection and transport.

It is unconventional to compare FDA-approved methodologies to techniques that have yet to receive FDA clearance, even if an accepted standard such as sequencing is performed. Therefore, additional charts comparing the test methods to CVA culture (approved FDA gold standard) have been included.

Table 106 illustrates the performance characteristics of the BD CVA agar. This media is used for the detection and isolation of Campylobacter spp. in stool. When the FilmArray GI pouch and DNA sequencing was used as the reference gold standard (number of true positives=41) the sensitivity, specificity, positive predictive value, and negative predictive values are 87.8%, 100%, 100%, and 82.1% respectively.

Table 106

CVA	FilmArray (gold standard)		
	Positive	Negative	Total
Positive	36	0	36
Negative	5	23	28
Total	41	23	64

Table 107 illustrates the performance characteristics of the BD CSM agar. This media is used for the detection and isolation of Campylobacter spp. in stool. When the FilmArray GI pouch and DNA sequencing was used as the reference gold standard (number of true positives=41) the sensitivity, specificity, positive predictive value, and negative predictive values are 87.8%, 100%, 100%, and 82.1% respectively.

Table 108 illustrates the performance characteristics of the Hardy Cefex agar. This media is used for the detection and isolation of Campylobacter spp. in stool. When the FilmArray GI pouch and DNA sequencing was used as the reference gold standard (number of true positives=41) the sensitivity, specificity, positive predictive value, and negative predictive values are 87.8%, 100%, 100%, and 82.1% respectively.

Table 107

CSM	**FilmArray (gold standard)**		
	Positive	Negative	Total
Positive	36	0	36
Negative	5	23	28
Total	41	23	64

Table 108

Cefex	**FilmArray (gold standard)**		
	Positive	Negative	Total
Positive	36	0	36
Negative	5	23	28
Total	41	23	64

Table 109 illustrates the performance characteristics of the Oxoid mCCDA agar. This media is used for the detection and isolation of Campylobacter spp. in stool. When the FilmArray GI pouch and DNA sequencing was used as the reference gold standard (number of true positives=41) the sensitivity, specificity, positive predictive value, and negative predictive values are 78.0%, 100%, 100%, and 71.9% respectively.

Table 110 illustrates the performance characteristics of the Meridian ImmunoCard STAT! Campy. This assay is used for the detection and isolation of CSA in stool. When the FilmArray GI pouch and DNA sequencing was used as the reference gold standard (number of true positives=41) the sensitivity, specificity, positive predictive value, and negative predictive values are 31.7%, 65.2%, 61.9%, and 34.9% respectively.

Table 109

mCCDA	**FilmArray (gold standard)**		
	Positive	Negative	Total
Positive	32	0	32
Negative	9	23	32
Total	41	23	64

Table 111 illustrates the performance characteristics of the Meridian Premier Campy. This assay is used for the detection and isolation of CSA in stool. When the FilmArray GI pouch and DNA sequencing was used as the reference gold standard (number of true positives=41) the sensitivity, specificity, positive predictive value, and negative predictive values are 80.5%, 26.1%, 66.0%, and 42.9% respectively.

Table 110

ImmunoCard STAT! Campy	**FilmArray (gold standard)**		
	Positive	Negative	Total
Positive	13	8	21
Negative	28	15	43
Total	41	23	64

Table 111

Premier Campy	**FilmArray (gold standard)**		
	Positive	Negative	Total
Positive	33	17	50
Negative	8	6	14
Total	41	23	64

Table 112 illustrates the performance characteristics of the Remel ProSpecT Campy. This assay is used for the detection and isolation of CSA in stool. When the FilmArray GI pouch and DNA sequencing was used as the reference gold standard (number of true positives=41) the sensitivity, specificity, positive predictive value, and negative predictive values are 75.6%, 82.6%, 88.6%, and 65.5% respectively.

Table 113 illustrates the performance characteristics of the mCCDA agar (Oxoid). This media is used for the detection and isolation of Campylobacter spp. in stool. When culture, using the CVA agar (BD), was used as the reference gold standard (number of true positives=37) the sensitivity, specificity, positive predictive value, and negative predictive values are 89.2%, 100.0%, 100.0%, and 99.8% respectively.

Table 112

ProSpecT Campy	**FilmArray (gold standard)**		
	Positive	Negative	Total
Positive	31	4	35
Negative	10	19	29
Total	41	23	64

Table 114 illustrates the performance characteristics of the ImmunoCard STAT! Campy (Meridian). This assay is used for the detection and isolation of CSA in stool. When culture, using the CVA agar (BD), was used as the reference gold standard (number of true positives=36) the sensitivity, specificity, positive predictive value, and negative predictive values are 30.6%, 98.8%, 52.4%, and 96.9% respectively.

Table 113

mCCDA	**CVA (gold standard)**		
	Positive	Negative	Total
Positive	33	0	33
Negative	4	2027	2031
Total	37	2027	2064

Table 114

ImmunoCard STAT! Campy	**CVA (gold standard)**		
	Positive	Negative	Total
Positive	11	10	21
Negative	25	790	815
Total	36	800	836

Table 115 illustrates the performance characteristics of the Premier Campy (Meridian). This assay is used for the detection and isolation of CSA in stool. When culture, using the CVA agar (BD), was used as the reference gold standard (number of true positives=36) the sensitivity, specificity, positive predictive value, and negative predictive values are 77.8%, 97.0%, 53.8%, and 99% respectively.

Table 116 illustrates the performance characteristics of the ProSpecT Campy (Remel). This assay is used for the detection and isolation of CSA in stool. When culture, using the CVA agar (BD), was used as the reference gold standard (number of true positives=36) the sensitivity, specificity, positive predictive value, and negative predictive values are 77.8%, 98.9%, 75.7%, and 99.0% respectively.

Table 115

Premier Campy	**CVA (gold standard)**		
	Positive	Negative	Total
Positive	28	24	52
Negative	8	775	783
Total	36	799	835

Table 117 illustrates the performance characteristics of the FilmArray GI pouch (Idaho Technology). This assay is used for the detection of Campylobacter spp. in stool. When culture, using the CVA agar (BD), was used as the reference gold standard (number of true positives=36) the sensitivity, specificity, positive predictive value, and negative predictive values are 100.0%, 82.1%, 87,8%, and 100.0% respectively.

Table 116

ProSpecT Campy	**CVA (gold standard)**		
	Positive	Negative	Total
Positive	28	9	37
Negative	8	790	798
Total	36	799	835

Table 117

FilmArray GI pouch	**CVA (gold standard)**		
	Positive	Negative	Total
Positive	36	5	41
Negative	0	23	23
Total	36	28	64

Chart Review

Twenty-nine Campylobacter negative patients possessed charts identifying diarrhea status of the patient at initial physician consult. Twenty-eight of the 29 patients presented with diarrhea. Fifteen Campylobacter positive patients possessed charts identifying diarrhea status of the patient at initial physician consult, 14 of which were positive for diarrhea. Furthermore 15 of the Campylobacter negative patients were positive for some other GI pathogen (E. coli 0157:H7 n=2, B. cereus n=2, Salmonella n=4, Shigella n=1, Aeromonas n=1, Shiga-toxin detection n=1, *C. diff* n=4, and Adenovirus n=1) all of which can produce diarrhea and symptoms similar to Campylobacter. The average temperature of Campylobacter negative patients was 37.1°C while the average temperature of Campylobacter positive patients was 37.5°C showing negligible variation and no significance. Additionally the average WBC value of Campylobacter negative patients was $12.0x10^3/\mu L$ while Campylobacter positive patients had an average WBC value of $11.9x10^3/\mu L$ again showing negligible variation and no significance. After performing the initial "broad" chart review it was determined that no clinical correlation of Campylobacter disease status could be determined from the current population and no further investigation was preformed.

CHAPTER IV

DISCUSSION

Campylobacter is the most common cause of acute gastroenteritis worldwide and the second most common in the United States. [1, 2, 9, 11, 12, 30] Annually the Campylobacter related burden on the United States taxpayers is $18.8 billion, more than any other foodborne related illness [29]. Although Campylobacter is well defined as a major cause of foodborne illness there lacks national (CDC) or state health department guidelines for detection in clinical specimens. Culture, the FDA gold standard for detection, has been hypothesized to sub-par due to its inability to detect non-viable organism. [12] This study looks to identify the most sensitive, specific, timely, and cost effective method for Campylobacter detection from stool samples.

Campylobacter is an oxidase positive, motile, nonspore forming, fastidious, curved Gram-negative rod and includes at least 18 species. [11, 12] The organism grows best in a microaerophilic environment (5% O_2, 10% CO_2, and 85% N). [11, 19] All Campylobacters grow at 37ºC but the primary pathogens *Campylobacter jejuni* and *Campylobacter coli* grow best at 42ºC. [1,

[11, 12, 19] This thermopihilic growth requirement along with selective growth medias is used by most clinical laboratories to detect Campylobacter in stool specimens.

Several detection techniques for Campylobacter exist and include but are not limited to microscopy, filtration, culture, ELISA/EIA, and molecular analysis. This study compared four culture medias (CVA, CSM, Campy-Cefex, and mCCDA), three ELISA/EIA techniques (ImmunoCard STAT! Campy, Premier Campy, and ProSpecT Campy), and one molecular diagnostic method (FilmArray Gastrointestinal Panel). Since the FilmArray GI panel is still in development and not FDA cleared for clinical use, DNA sequencing was performed to confirm true positive samples.

Three of the four culture medias (CVA, CSM, and Cefex) performed relatively well when compared to the FilmArray for the detection of Campylobacter species in stool with five false negative results. The major limitations for culture techniques are the turn-around-time, 48 to 72 hours, and the ability of the microbiologist to detect low numbers of organisms.

The mCCDA media was slightly less sensitive than the other three culture medias for the detection of Campylobacter species in stool with nine false negative results. Possible contributing factors are the decreased incubation temperature (37°C versus 42°C) allowing for fecal flora overgrowth; poor sensitivity of the agar; and agar inconsistencies because it is made in house.

The Meridian ImmunoCard STAT! Campy lateral flow assay did not detect 28 of the Campylobacter positive samples by FilmArray while having eight false positive results. Never has the ImmunoCard STAT! Campy been tested against the FilmArray so there is the possibility of poor concordance between the two methodologies; however, when the ImmunoCard STAT! Campy is compared against culture there are 25 false negative results and 10 false positive results, very similar to the FilmArray comparison. The ImmunoCard STAT! Campy has the shortest turn-around-time (20 minutes) but with such a decreased sensitivity it is not an adequate method for Campylobacter detection. Additionally 600 of the ImmunoCard STAT! Campy results were test on previously frozen samples. The package insert states that frozen samples are acceptable and can be archived for up to one year (letter from Meridian) albeit it was believed that the freeze-thaw process could be damaging the CSA necessary for detection. An additional 250 samples were run on the ImmunoCard STAT! upon receipt in the lab (not frozen aliquots) and there were still seven out of twelve (58.3%) false negative results. Furthermore there is known to be an issue with false positives with what is known as the “brown line phenomenon”. A compound in the stool will react with the Campylobacter capture antibodies on the test position resulting in a brown line versus a red line in the test position. Line color can be difficult to detect under optimal light increasing the subjectivity of the assay. False

positive results due to the "brown line phenomenon" could possibly be circumvented with assay confirmation between two or more microbiologists.

The Meridian Premier Campy had adequate sensitivity (80.5%) but poor specificity (26.1%) when compared to the FilmArray GI panel. This is in part due to the high number of false positive results, 17, with a low sample population (n=64). When Premier Campy is compared to culture as the gold standard the sensitivity is comparable (77.8%) and the specificity greatly increases (97.0%) even though the number of false positives also increases by seven. The drastic change in specificity is due to the huge increase in sample population (n=799). The Premier Campy had a lower value of false negatives (8 versus 28) when compared to the ImmunoCard STAT! Campy, which is also made by Meridian and detects the same antigen. Again it was believe that the freeze-thaw process could be adding to the degradation of the antigen. When the assay was performed on nonfrozen stool aliquots there was only one false negative result (8.3%) when compared to the FilmArray. Assay sensitivity is the only explanation of decreased numbers of false negatives, one versus seven, when you compare the Premier Campy to the ImmunoCard STAT! Campy on non-frozen stool aliquots. Furthermore there is a relatively large number of false positive Premier Campy results. This could occur for may reasons but the most probably occurs when a strong positive microwell sits adjacent to a true negative microwell. During the wash steps it is very

easy to contaminate adjacent microwells with carry-over. Repeating adjacent positives would confirm true positives.

The Remel ProSpecT Campy produced very similar sensitivity when compared to the other microplate EIA/ELISA technique (Meridian Premier Campy) 75.6% to 80.5% but greatly increased specificity due to the low number of false positives. There are a moderate amount of false negative values, 10, but when evaluated on nonfrozen stool aliquots the number of false negatives decreases to 2 out of 12 (16.7%). As with the Premier Campy assay there exists the issue of carry-over from a strong positive microwell to an adjacent well. Repeating adjacent positives would confirm true positives.

In addition to the possible discrepancies for the three EIA/ELISA techniques it is possible that the antigenic target on the organism has evolved. Ideally the target epitope on the antigen should be very conserved; however, the poor sensitivity and specificity, especially when compared to Dr. Granato's data from the east/west coasts of the continental United States, suggests possible antigenic drift.

FilmArray has the possibility of detecting viable and non-viable Campylobacters. DNA sequencing was used to confirm the FilmArray GI results. The FilmArray GI panel has proved to be the best method for Campylobacter species detection from stool. The assay has outstanding sensitivity (100%) when compared to culture. The specificity of the FilmArray when compared to culture is 82.1%; however, DNA sequencing proved

Campylobacter jejuni presence in the FilmArray "false positive" samples. The ability of the FilmArray to detect organism missed by culture proves the superiority of the assay.

Additionally the FilmArray is able to produce a result in roughly 1 hour, greatly decreasing the turn-around-time (48-72 hours for culture). The only potential drawback of the FilmArray is the cost of detection. However, if a comparison of the sum of the costs of detection for each organism on the FilmArray GI panel individually by current methods to the cost of a FilmArray GI panel you would notice significant savings. Finally, the FilmArray GI panel is the most objective method for Campylobacter detection evaluated. No end user analysis is required as is with EIA/ELISA techniques. In conclusion, the FilmArray GI panel is the most sensitive, specific, rapid, cost effective, and objective method for the detection of Campylobacter species in stool. Due to the poor performance of the culture techniques molecular assays such as the ITI FilmArray GI panel should replace traditional culture techniques in the microbiology lab.

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